

IN THE CLAIMS:

1. (Currently Amended) A real-time large-scale visualization system comprising:
 - a visualization interface;
 - a plurality of processing tools;
 - means for ~~accessing~~ manipulating a plurality of data files that had been converted to a uniform self-describing format; and
 - means that enables streaming the data to and through one or more of said processing tools to create data results for updating one or more objects, which one or more objects ~~may be~~ are displayed by the visualization interface.
2. (Original) The invention of claim 1 wherein the visualization interface provides linked views of the data results.
3. (Original) The invention of claim 2 wherein the visualization interface is capable of presenting a statistical two-dimensional view, a pixel-oriented two-dimensional view, and a dynamic three-dimensional detailed view.
4. (Original) The invention of claim 1 wherein the visualization interface can access the data results as the processing tools are working on the data.
5. (Original) The invention of claim 1 wherein the visualization interface enables selection of a portion of the data results such that data corresponding to the portion selected may be accessed and processed in real-time to create second data results that are displayed on the visualization interface.
6. (Original) The invention of claim 1 wherein the processing tools enables creation of new processing expressions that are compiled and dynamically linked to the processing tools.

7. (Original) The invention of claim 1 wherein the data is accessed using Direct IO.

8. (Previously Presented) A method of visualizing large-scale data in real-time comprising:

accessing a plurality of data files that had been converted to a uniform self-describing format;

streaming the data to and through one or more processing tools to create data results for updating one or more objects, which one or more objects are adapted for display;

displaying said one or more objects on a visualization interface.

9. (Original) The invention of claim 1 wherein the visualization interface provides linked views of the data results.

10. (Original) The invention of claim 2 wherein the visualization interface is capable of presenting a statistical two-dimensional view, a pixel-oriented two-dimensional view, and a dynamic three-dimensional detailed view.

11. (Original) The invention of claim 1 wherein the visualization interface can access the data results as the processing tools are working on the data.

12. (Original) The invention of claim 1 wherein the visualization interface enables selection of a portion of the data results such that data corresponding to the portion selected may be accessed and processed in real-time to create second data results that are displayed on the visualization interface.

13. (Original) The invention of claim 1 wherein the processing tools enables creation of new processing expressions that are compiled and dynamically linked to the processing tools.

14. (Original) The invention of claim 1 wherein the data is accessed using Direct IO.